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Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A transistor comprising:
a vertical channel protruding from a substrate including a source/drain region junction between the vertical channel and the substrate;
an insulating layer extending on a side wall of the vertical channel toward the substrate to beyond the source/drain region junction;
a nitride layer extending on the side wall away from the substrate to beyond the insulating layer; and
a gate electrode extending on the side wall toward the substrate to beyond the source/drain region junction.
2. (Original) A transistor according to Claim 1, wherein the insulating layer further extends on a top surface of the channel.
3. (Canceled).
4. (Currently Amended) A transistor according to Claim ~~[[3]]~~ 1 wherein the nitride layer is absent from beyond the junction.
5. (Currently Amended) A transistor according to Claim ~~[[3]]~~ 1 further comprising:
a second insulating layer extending on the side wall, wherein the second insulating layer is separated from the channel by the nitride layer.
6. (Canceled).

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7. (Original) A transistor according to Claim 1, wherein the channel has a width that gradually increases toward the substrate.

8. (Original) A transistor according to Claim 1, wherein the channel has an upper width and a lower width, wherein the upper width of the channel is uniform and the lower width of the channel gradually increases toward the substrate.

9. (Original) A transistor according to Claim 1 further comprising:
a mask insulating layer extending on a top surface of the channel.

10. (Original) A transistor according to Claim 9, wherein the mask insulating layer comprises an etch stop nitride layer and a pad oxide layer.

11. (Original) A transistor according to Claim 10, wherein the mask insulating layer further comprises a pad nitride layer.

12. (Original) A transistor according to Claim 9, wherein the mask insulating layer comprises alternating oxide and nitride layers.

13. (Currently Amended) A transistor comprising:
a plurality of vertical channels protruding from a substrate including respective source/drain region junctions between the plurality of vertical channels and the substrate;
a plurality of insulating layers extending on respective side walls of the plurality of vertical channels toward the substrate to beyond the respective source/drain region junctions;
a plurality of nitride layers extending on the respective side walls away from the substrate to beyond the plurality of insulating layers; and
a gate electrode extending on the respective side walls of the plurality of channels toward the substrate to beyond the respective source/drain region junctions.

14. (Original) A transistor according to Claim 13 further comprising:

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at least one planar region connected to the plurality of vertical channels.

15. (Original) A transistor according to Claim 13, wherein the plurality of insulating layers further extends on respective top surfaces of the plurality of channels.

16. (Canceled).

17. (Currently Amended) A transistor according to Claim ~~[[16]]~~ 13, wherein the plurality of nitride layers are absent from beyond the respective junctions.

18. (Currently Amended) A transistor according to Claim ~~[[16]]~~ 13, wherein the plurality of channels are separated by the plurality of nitride layers.

19. (Canceled).

20. (Original) A transistor according to Claim 13 wherein the plurality of channels are oriented in a parallel configuration.

21.-30. (Canceled).

31. (Original) A transistor comprising:
a fin that is a vertically protruding portion of semiconductor substrate;
a nitride liner formed on lower sidewalls of the fin;
a buffer oxide layer interposed between the lower sidewalls of the fin and the nitride liner;
a gate insulating layer that are formed on upper sidewalls of the fin and connected to the buffer oxide layer;
device isolating layer separated a predetermined distance from the fin by the nitride liner; and
a gate electrode disposed crossing over the fin.

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32. (Original) The transistor as claimed in claim 31, wherein top edges of the fin are formed rounded.

33. (Original) The transistor as claimed in claim 31, wherein a width of the fin gradually increases from top to bottom.

34. (Original) The transistor as claimed in claim 31, wherein an upper width of the fin coated with the gate insulating layer is uniform, and a lower width of the fin coated with the buffer oxide layer gradually increases toward bottom.

35. (Original) The transistor as claimed in claim 31, wherein the gate insulating layer is conformally formed on the upper sidewalls and a top surface of the fin.

36. (Original) The transistor as claimed in claim 31 further comprising a mask insulating layer consisting of a pad oxide layer and an etch mask layer that are sequentially stacked on a top surface of the fin,

wherein the gate electrode crosses over the mask insulating layer.

37. (Original) The transistor as claimed in claim 36, wherein the mask insulating layer further comprises a pad nitride layer interposed between the pad oxide layer and the top surface of the fin.

38. (Original) The transistor as claimed in claim 31 further comprising a mask insulating layer formed by alternately stacking an oxide layer and a nitride layer on a top surface of the fin, wherein the gate electrode crosses over the mask insulating layer.

39. (Original) The transistor as claimed in claim 31 further comprising:
source and drain regions formed in the fin at both sides of the gate electrode; and
a channel region formed in the fin under the gate electrode.

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40. (Original) A transistor comprising:
a pillar including a couple of planar regions and a plurality of fins connecting the two planar regions that are a vertically protruding portion of semiconductor substrate and separated from each other;
a nitride liner formed under the pillar;
a buffer oxide layer interposed between lower sidewalls of the pillar and the nitride liner;
a gate insulating layer that is formed on upper sidewalls of the pillar and connected to the buffer oxide layer;
device isolation layers separated a predetermined region by the nitride liner on the sidewalls of the pillar; and
a gate electrode disposed crossing over the fins.

41. (Original) The transistor as claimed in claim 40, wherein top edges of the fin are formed rounded.

42. (Original) The transistor as claimed in claim 40, wherein a width of the fin gradually increases from top to bottom.

43. (Original) The transistor as claimed in claim 40, wherein an upper width of the fin coated with the gate insulating layer is uniform and a lower width of the fin coated with the buffer oxide layer increases toward bottom.

44. (Original) The transistor as claimed in claim 40, wherein the gate insulating layer is conformally formed on upper sidewalls and top surface of the pillar.

45. (Original) The transistor as claimed in claim 40 further comprising a mask insulating layer consisting of a pad oxide layer and an etch mask layer on top surface of the pillar,

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wherein the gate electrode layer crosses over the mask insulating layer.

46. (Original) The transistor as claimed in claim 45, wherein the mask insulating layer further comprises a pad nitride layer interposed between the pad oxide layer and a top surface of the pillar.

47. (Original) The transistor as claimed in claim 40 further comprising a mask insulating layer formed on the pillar by alternately stacking the oxide layers and the nitride layers,

wherein the gate electrode crosses over the mask insulating layer.

48. (Original) The transistor as claimed in claim 40 further comprising:
source and drain regions formed in the pillar at both sides of the gate electrode,
respectively; and
a channel region formed in the fins under the gate electrode.

49. -51. (Canceled).